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Dated: March 21, 2005

Signature:

Staci Harris
(Staci Harris)

Docket No.: HO-P02005US0
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Patent Application of:
Christopher J. Schofield et al.

Application No.: 09/582,486

Confirmation No.: 3471

Filed: December 24, 1998

Art Unit: 1631

For: MODIFIED
DEACETOXYCEPHALOSPORIN C
SYNTHASES (DAOCS) AND X-RAY
STRUCTURE

Examiner: M. L. Borin

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information-Disclosure Statement is filed more than three months after the U.S. filing date, OR more than three months after the date of entry of the national stage of a PCT application, AND after the mailing date of the first Office Action on the merits, whichever occurs first, but before the mailing date of a Final Office Action or Notice of Allowance (37 CFR 1.97(c)).

A copy of each reference on the PTO/SB/08 is attached.

Our check in the amount of \$180.00 covering the fee set forth in 37 CFR 1.17(p) is enclosed. The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter


Application No.: 09/582,486

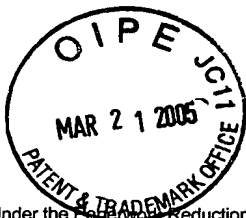
Docket No.: HO-P02005US0

filed in this application by this firm) to our Deposit Account No. 06-2375, under Order No. 10020482.

Dated: March 21, 2005

Respectfully submitted,

By 
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PTO/SB/08A (10-01)

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| | | | | Application Number | 09/582,486 |
| | | | | Filing Date | December 24, 1998 |
| | | | | First Named Inventor | Christopher J. Schofield |
| | | | | Art Unit | 1631 |
| | | | | Examiner Name | M. L. Borin |
| Sheet | 1 | of | 1 | Attorney Docket Number | HO-P02005US0 |

| U.S. PATENT DOCUMENTS | | | | | |
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| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
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| NON PATENT LITERATURE DOCUMENTS | | | |
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| | CA | Kovacevic, Steven et al.; Cloning, Characterization, and Expression in Escherichia coli of the Streptomyces clavuligerus Gene Encoding Deacetoxycephalosporin C Synthetase; <i>Journal of Bacteriology</i> , Feb. 1989, p. 754-760. | |
| | CB | Chin, Hong Soon et al.; A Complete Library of Amino Acid Alterations at N304 in Streptomyces clavuligerus Deacetoxycephalosporin C Synthase Elucidates the Basis for Enhanced Penicillin Analogue Conversion; <i>Applied and Environmental Microbiology</i> , Jan. 2004, p. 607-609. | |
| | CC | Chin, Hong Soon et al.; Mutation of N304 to Leucine in Streptomyces clavuligerus Deacetoxycephalosporin C Synthase Creates an Enzyme with Increased Penicillin Analogue Conversion; <i>Biochemical and Biophysical Research Communications</i> ; 287, 507-513 (2001). | |
| | CD | Lee, Hwei-Jen et al. Active Site Mutations of Recombinant Deacetoxycephalosporin C Synthase; <i>Biochemical and Biophysical Research Communications</i> ; 292, 66-70 (2002). | |

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